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July 17, 2006

Mail Stop Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: U.S. Patent No.: 7,031,427 B2
Issued: April 18, 2006
Inventor: Jean-Marc Dinten et al.
Our Docket: 36057

Sir:

A Certificate of Correction under 35 U.S.C. 254 is hereby requested to correct Patent Office printing errors in the above-identified patent. Enclosed herewith is a proposed Certificate of Correction (Form No. PTO-1050) for consideration along with appropriate documentation supporting the request for correction.

It is requested that the Certificate of Correction be completed and mailed at an early date to the undersigned attorney of record. The proposed corrections are obvious ones and do not in any way change the sense of the application.

We understand that a check is not required since the errors were on the part of the Patent and Trademark Office in printing the patent.

Very truly yours,

Jeffrey J. Sopko, Reg. No. 27676

JJS:vln
Enclosures

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Jeffrey J. Sopko
Name of Attorney for Applicant(s)

July 17, 2006
Date

Signature of Attorney

PTO/SB/44 (07-03)
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.	:	7,031,427	PAGE 1 OF 1
DATED	:	April 18, 2006	
INVENTOR(S)	:	Jean-Marc Dinten et al.	

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5, line 24 please delete "(Φ object)" and insert therefore –(Φ_t object)--

Column 6, claim 11, line 36 please delete the formula and insert the following formula

–K = $[\Phi_t \log(\Phi_t/\Phi_o)]$ object $[\Phi_t \log(\Phi_t/\Phi_o)]$ imitation--

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PATENT NO. 7,031,427

No. of additional copies
⇨ 0

13. (Previously Presented) Application of the method according to claim ~~14~~ to non-destructive controls.

14. (Currently Amended) An object imaging method by multiple acquisitions, the acquisitions consisting in passing a radiation through the object, measuring the radiation having passed through the object, the radiation being attenuated through the object from an initial radiation (Φ_0) to a total measurement radiation (Φ_t object), and subtracting an estimation of a scattered radiation (Φ_d object) from the total measurement radiation, the measurement radiation and scattered radiation consisting of values associated to respective parts of the object, and wherein:

for at least one of said acquisitions, ~~15~~ values of scattered radiation (Φ_d imitation) are measured in passing the initial radiation through an imitation (8) of the ~~objet;~~ object, transposition coefficients (K) relating the scattered radiation through the object to the scattered radiation through the imitation (8) are calculated based on the initial radiation (Φ_0), the total measurement radiation (Φ_t object) through the object and a total measurement radiation through the imitation (Φ_t imitation),

the scattered radiation through the object in estimated with the transposition coefficients and the scattered radiation through the imitation,

the values of total measurement radiation through the objects, the values of scattered radiation through the imitation and the transposition coefficients being spread in respective tables comprising corresponding elements so that each of the transposition coefficients is associated to a respective part of the object.

15. (Previously Presented) An object imaging method according to claim 14, wherein the coefficients are computed according to the formula:

Col. 6

$$K = \frac{[\Phi_t \log (\Phi_t/\Phi_o)] \text{ object}}{[\Phi_t \log (\Phi_t/\Phi_o)] \text{ imitation}}$$